Volume 207, Number 1 September 2005

Original Papers

Pleomorphic lobular carcinoma of the breast: role of comprehensive molecular pathology in characterization of an entity JS Reis-Filho, PT Simpson, C Jones, D Steele, A Mackay, M Iravani, K Fenwick, H Valgeirsson, M Lambros, A Ashworth, J Palacios, F Schmitt and SR Lakhani 1

***TP53* mutations are associated with a particular pattern of genomic imbalances in breast carcinomas** K Kleivi, CB Diep, N Pandis, S Heim, MR Teixeira and RA Lothe 14

Different proportions of aneusomic cells in ovarian inclusion cysts associated with serous borderline tumours and serous high-grade carcinomas support different pathogenetic pathways M Körner, E Burckhardt and L Mazzucchelli 20

Fibroblast growth factor receptor 2, gain-of-function mutations and tumourigenesis: investigating a potential link RMS Hansen, A Goriely, SA Wall, ISD Roberts and AOM Wilkie 27

Up-regulation of cathepsin X in *Helicobacter pylori* gastritis and gastric cancer S Krueger, T Kalinski, T Hundertmark, T Wex, D Küster, U Peitz, M Ebert, DK Nägler, U Kellner, P Malfertheiner, M Naumann, C Röcken and A Roessner 32

Reciprocal changes in trefoil 1 and 2 expression in stomachs of mice with gastric unit hypertrophy and inflammation TV Franic, IR van Driel, PA Gleeson, AS Giraud and LM Judd 43

ERβ isoform expression in colorectal carcinoma: an *in vivo* and *in vitro* study of clinicopathological and molecular correlates NACS Wong, RDG Malcomson, DI Jodrell, NP Groome, DJ Harrison and PTK Saunders 53

cDNA expression profiling of chondrosarcomas: Ollier disease resembles solitary tumours and alteration in genes coding for components of energy metabolism occurs with increasing grade LB Rozeman, L Hameetman, T van Wezel, AHM Taminiau, A-M Cleton-Jansen, PCW Hogendoorn and JVMG Bovée 61

Micronodular thymoma: an epithelial tumour with abnormal chemokine expression setting the stage for lymphoma development P Ströbel, M Marino, M Feuchtenberger, A-S Rouzière, HP Tony, U Wulbrand, R Förster, A Zettl, NL Harris, H Kreipe, RH Laeng, HK Müller-Hermelink and A Marx 72

Presence and maturity of dendritic cells in melanoma lymph node metastases ME Polak, P Johnson, S Di Palma, B Higgins, J Hurren, NJ Borthwick, MJ Jager, D Maccormick and IA Cree 83

Molecular characterization of tumour heterogeneity and malignant mesothelioma cell differentiation by gene profiling X Sun, L Wei, J Lidén, H Gao, K Dahlman-Wright, A Hjerpe and K Dobra 91

Airway proteoglycans are differentially altered in fatal asthma M de Medeiros Matsushita, LFF da Silva, MA dos Santos, S Fernezlian, JA Schrumpf, P Roughley, PS Hiemstra, PHN Saldiva, T Mauad and M Dolhnikoff 102

Distinct endoplasmic reticulum stress responses are triggered during human liver transplantation A Emadali, DT Nguyên, C Rochon, GN Tzimas, PP Metrakos and E Chevet 111

Letters to the Editor

Re: Lottner *et al.* Simultaneous detection of HER2/neu gene amplification and protein overexpression in paraffin-embedded breast cancer. *J Pathol* 2005; 205: 577–584 Z Szollosi, K Egervari, Z Nemes and V Kaczur 119

Authors' reply: Response to Szollosi, Egervari, Nemes and Kaczur C Lottner, S Schwarz, S Diermeier, A Hartmann, R Knuechel, F Hofstaedter and G Brockhoff 121

Volume 207, Number 2 October 2005

Original Papers

Identification of immunodominant autoantigens in rat autoimmune orchitis M Fijak, R Iosub, E Schneider, M Linder, K Respondek, J Klug and A Meinhardt 127

AKT activation predicts outcome in breast cancer patients treated with tamoxifen T Kirkegaard, CJ Witton, LM McGlynn, SM Tovey, B Dunne, A Lyon and JMS Bartlett 139

Macrophages direct tumour histology and clinical outcome in a colon cancer model SJ Oosterling, GJ van der Bij, GA Meijer, CW Tuk, E van Garderen, N van Rooijen, S Meijer, JRM van der Sijp, RHJ Beelen and M van Egmond 147

Up-regulated expression of ADAM17 in human colon carcinoma: co-expression with EGFR in neoplastic and endothelial cells F Blanchot-Jossic, A Jarry, D Masson, K Bach-Ngohou, J Paineau, MG Denis, CL Laboisse and J-F Mosnier 156

Expression of *NOX1*, a superoxide-generating NADPH oxidase, in colon cancer and inflammatory bowel disease I Szanto, L Rubbia-Brandt, P Kiss, K Steger, B Banfi, E Kovari, F Herrmann, A Hadengue and K-H Krause 164

Protective role of heat shock protein 27 in gastric mucosal injury MPA Ebert, C Schäfer, J Chen, J Hoffmann, P Gu, C Kubisch, S Carl-McGrath, G Treiber, P Malfertheiner and C Röcken 177

Expression and localization of Reg IV in human neoplastic and non-neoplastic tissues: Reg IV expression is associated with intestinal and neuroendocrine differentiation in gastric adenocarcinoma N Oue, Y Mitani, PP Aung, C Sakakura, Y Takeshima, M Kaneko, T Noguchi, H Nakayama and W Yasui 185

Desmoglein 2 is expressed abnormally rather than mutated in familial and sporadic gastric cancer K Biedermann, H Vogelsang, I Becker, S Plaschke, JR Siewert, H Höfler and G Keller 199

Chromosomal imbalances in wood dust-related adenocarcinomas of the inner nose and their associations with pathological parameters D Korinth, M Pacyna-Gengelbach, N Deutschmann, S Hattenberger, U Bockmühl, M Dietel, H-G Schroeder, K Donhuijsen and I Petersen 207

Co-expression of c-kit and stem cell factor in primary and metastatic nasopharyngeal carcinomas and nasopharyngeal epithelium L-F Sheu, W-C Lee, H-S Lee, W-Y Kao and A Chen 216

Amplification of genes encoding KIT, PDGFRα, and VEGFR2 receptor tyrosine kinases is frequent in glioblastoma multiforme H Joensuu, M Puputti, H Sihto, O Tynninen and NN Nupponen 224

Smad3 signalling plays an important role in keloid pathogenesis via epithelial—mesenchymal interactions TT Phan, IJ Lim, O Aalami, F Lorget, A Khoo, E-K Tan, A Mukhopadhyay and MT Longaker 232

BIC and miR-155 are highly expressed in Hodgkin, primary mediastinal and diffuse large B cell lymphomas J Kluiver, S Poppema, D de Jong, T Blokzijl, G Harms, S Jacobs, B-J Kroesen and A van den Berg 243

Volume 207, Number 3 November 2005

Original Papers

Discriminating functional and non-functional p53 in human tumours by p53 and MDM2 immunohistochemistry R Nenutil, J Smardova, S Pavlova, Z Hanzelkova, P Muller, P Fabian, R Hrstka, P Janotova, M Radina, DP Lane, PJ Coates and B Vojtesek **251**

Typical medullary breast carcinomas have a basal/myoepithelial phenotype J Jacquemier, L Padovani, L Rabayrol, SR Lakhani, F Penault-Llorca, Y Denoux, M Fiche, P Figueiro, V Maisongrosse, V Ledoussal, JM Penuela, N Udvarhely, G El Makdissi, C Ginestier, J Geneix, E Charafe-Jauffret, L Xerri, F Eisinger, D Birnbaum, The European Working Group for Breast Screening Pathology, the Breast Cancer Linkage Consortium and H Sobol **260**

Barrett's oesophagus is characterized by a predominantly humoral inflammatory response LMG Moons, JG Kusters, E Bultman, EJ Kuipers, H van Dekken, WMW Tra, A Kleinjan, J Kwekkeboom, AHM van Vliet and PD Siersema **269**

Vascular endothelial growth factor and neo-angiogenesis in *H. pylori* gastritis in humans C Tuccillo, A Cuomo, A Rocco, E Martinelli, S Staibano, M Mascolo, AG Gravina, G Nardone, V Ricci, F Ciardiello, C Del Vecchio Blanco and M Romano ... **277**

Morphology and microsatellite instability in sporadic serrated and non-serrated colorectal cancer K Tuppurainen, JM Mäkinen, O Junttila, A Liakka, AP Kyllönen, H Tuominen, TJ Karttunen and MJ Mäkinen **285**

Impaired expression of acyl-CoA synthetase 5 in sporadic colorectal adenocarcinomas N Gassler, I Herr, A Schneider, R Penzel, L Langbein, P Schirmacher and J Kopitz **295**

Lymphatic spread of ductal pancreatic adenocarcinoma is independent of lymphangiogenesis B Sipos, M Kojima, K Tiemann, W Klapper, M-L Kruse, H Kalthoff, B Schniewind, J Tepel, H Weich, D Kerjaschki and G Klöppel **301**

The origin of tubular aggregates in human myopathies F Chevessier, S Bauché-Godard, J-P Leroy, J Koenig, M Paturneau-Jouas, B Eymard, D Hantaï and M Verdière-Sahuqué **313**

Type XIII collagen expression is induced during malignant transformation in various epithelial and mesenchymal tumours T Väisänen, M-R Väisänen, H Autio-Harmainen and T Pihlajaniemi **324**

Expression of cortistatin and MrgX2, a specific cortistatin receptor, in human neuroendocrine tissues and related tumours E Allia, E Tarabra, M Volante, M Cerrato, E Ghigo, G Muccioli and M Papotti **336**

Genome analysis and gene expression profiling of neuroblastoma and ganglioneuroblastoma reveal differences between neuroblastic and Schwannian stromal cells S Coco, R Defferrari, P Scaruffi, A Cavazzana, C Di Cristofano, L Longo, K Mazzocco, P Perri, C Gambini, S Moretti, S Bonassi and GP Tonini **346**

Critical overexpression of thrombospondin 1 in chronic leg ischaemia J Favier, S Germain, J Emmerich, P Corvol and J-M Gasc **358**

Letters to the Editor

Re: Korsching *et al.* The origin of vimentin expression in invasive breast cancer: epithelial–mesenchymal transition, myoepithelial histogenesis or histogenesis from progenitor cells with bilinear differentiation potential? *J Pathol* 2005; 206: 451–457 JS Reis-Filho **367**

Authors' reply: Response to Reis-Filho E Korsching, PJ van Diest and H Buerger **370**

Re: Rust *et al.* TIMP-1 expression in anaplastic large cell lymphoma is usually restricted to macrophages and only seldom observed in tumour cells. *J Pathol* 2005; 206: 445–450 R Lai, V Leventaki and GZ Rassidakis **372**

Authors' reply: Response to Lai, Leventaki and Rassidakis A van den Berg, L Visser, R Rust and S Poppema **374**

Announcements **376**

Volume 207, Number 4 December 2005

Original Papers

Routine testing for mismatch repair deficiency in sporadic colorectal cancer is justified RL Ward, J Turner, R Williams, B Pekarsky, D Packham, M Velickovic, A Meagher, T O'Connor and NJ Hawkins 377

Tumours from *MSH2* mutation carriers show loss of MSH2 expression but many tumours from *MLH1* mutation carriers exhibit weak positive MLH1 staining E Mangold, C Pagenstecher, W Friedl, H-P Fischer, S Merkelbach-Bruse, M Ohlendorf, N Friedrichs, S Aretz, R Buettner, P Propping and M Mathiak 385

OCT-1 is over-expressed in intestinal metaplasia and intestinal gastric carcinomas and binds to, but does not transactivate, CDX2 in gastric cells RI Almeida, J Almeida, M Shoshkes, N Mendes, P Mesquita, E Silva, I Van Seuningen, CA Reis, F Santos-Silva and L David 396

Up-regulation of fibronectin in oesophageal squamous cell carcinoma is associated with activation of the Erk pathway J Zhang, H Zhi, C Zhou, F Ding, A Luo, X Zhang, Y Sun, X Wang, M Wu and Z Liu 402

Frequent alteration of *p16^{INK4a}/p14^{ARF}* and *p53* pathways in the round cell component of myxoid/round cell liposarcoma: *p53* gene alterations and reduced p14^{ARF} expression both correlate with poor prognosis Y Oda, H Yamamoto, T Takahira, C Kobayashi, K Kawaguchi, N Tateishi, Y Nozuka, S Tamiya, K Tanaka, S Matsuda, R Yokoyama, Y Iwamoto and M Tsuneyoshi 410

Up-regulation of ERM/ETV5 correlates with the degree of myometrial infiltration in endometrioid endometrial carcinoma J Planagumà, M Abal, A Gil-Moreno, M Díaz-Fuertes, M Monge, Á García, T Baró, J Xercavins, J Reventós and F Alameda 422

Different genotype distribution of the *GNB3* C825T polymorphism of the G protein β3 subunit in adenomas and differentiated thyroid carcinomas of follicular cell origin S-Y Sheu, R Görges, C Ensinger, D Öfner, NR Farid, W Siffert and KW Schmid 430

Tissue-specific mtDNA lesions and radical-associated mitochondrial dysfunction in human hearts exposed to doxorubicin D Lebrecht, A Kokkori, U-P Ketelsen, B Setzer and UA Walker 436

Expression of receptors for putative anabolic growth factors in human intervertebral disc: implications for repair and regeneration of the disc CL Le Maitre, SMA Richardson, P Baird, AJ Freemont and JA Hoyland 445

Conditional deletion of Indian hedgehog from collagen type 2α1-expressing cells results in abnormal endochondral bone formation MS Razzaque, DW Soegiarto, D Chang, F Long and B Lanske 453

Enhanced monocyte binding to human cytomegalovirus-infected syncytiotrophoblast results in increased apoptosis via the release of tumor necrosis factor alpha G Chan and LJ Guilbert 462

Diagnostic and pathogenetic implications of the expression of hepatic transporters in focal lesions occurring in normal liver S Vander Borght, L Libbrecht, H Blokzijl, KN Faber, H Moshage, R Aerts, W Van Steenbergen, PL Jansen, VJ Desmet and TA Roskams 471

Modulation of osteopontin in proteinuria-induced renal interstitial fibrosis AB Kramer, SD Ricardo, DJ Kelly, F Waanders, H van Goor and G Navis 483